

SEQUENCE LISTING

<110> NATIONAL CHENG KUNG UNIVERSITY

<120> GENES CONTROLLING FLORAL DEVELOPMENT IN ORCHID

<130> none

<160> 24

<170> PatentIn version 3.2

<210> 1

<211> 917

<212> DNA

<213> Phalaenopsis equestris

<220>

<221> CDS

<222> (76)..(759)

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 Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu
 1 5 10

aat ccg acg aac agg caa gtt aca tat tct aag agg aga gtt ggg ata 159
 Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser Lys Arg Arg Val Gly Ile
 15 20 25

ctg aag aag gcc aag gag ctc act gtt ctc tgt gat gct cag gtc tct 207
 Leu Lys Lys Ala Lys Glu Leu Thr Val Leu Cys Asp Ala Gln Val Ser
 30 35 40

ctc atc atg ttc tca agc aca gga aag ttg gct gat tac tgc agc ccc 255
 Leu Ile Met Phe Ser Ser Thr Gly Lys Leu Ala Asp Tyr Cys Ser Pro
 45 50 55 60

tct act gat att aag ggg ata tat gag agg tac cag gtt gtg act gga 303
 Ser Thr Asp Ile Lys Gly Ile Tyr Glu Arg Tyr Gln Val Val Thr Gly
 65 70 75

atg gat cta tgg aat gct cag tat gag agg atg cag aat acg ctg aag 351

Met Asp Leu Trp Asn Ala Gln Tyr Glu Arg Met Gln Asn Thr Leu Lys	
80 85 90	
cat ctg aat gag att aac caa aac ctg agg aag gag att agg agg agg	399
His Leu Asn Glu Ile Asn Gln Asn Leu Arg Lys Glu Ile Arg Arg Arg	
95 100 105	
aag ggg gag gaa ttg gag ggc atg gac ata aag caa ctg cgc ggt ctt	447
Lys Gly Glu Glu Leu Glu Gly Met Asp Ile Lys Gln Leu Arg Gly Leu	
110 115 120	
gag caa act ttg gaa gag tct ctt aga att gtt agg cat aga aag tat	495
Glu Gln Thr Leu Glu Glu Ser Leu Arg Ile Val Arg His Arg Lys Tyr	
125 130 135 140	
cat gtg atc gcc aca caa act gac act tac aag aaa aag ctt aaa agc	543
His Val Ile Ala Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Ser	
145 150 155	
aca agg gaa act tac cgc gct cta ata cat gaa ctg gat atg aaa gag	591
Thr Arg Glu Thr Tyr Arg Ala Leu Ile His Glu Leu Asp Met Lys Glu	
160 165 170	
gag aat ccg aac tac ggt ttt aat gta gaa aac cag agt aga att tat	639
Glu Asn Pro Asn Tyr Gly Phe Asn Val Glu Asn Gln Ser Arg Ile Tyr	
175 180 185	
gaa aat tcg att cca atg gtg aat gag tgt cct cag atg ttt tcc ttt	687
Glu Asn Ser Ile Pro Met Val Asn Glu Cys Pro Gln Met Phe Ser Phe	
190 195 200	
agg gtt gtt cat ccg aat cag ccc aat ctg ctt ggt tta ggt tat gaa	735
Arg Val Val His Pro Asn Gln Pro Asn Leu Leu Gly Leu Gly Tyr Glu	
205 210 215 220	
tca cat gat ctt agc ctt gca taa tgagcagtaa tattatgatt ttattgtatt	789
Ser His Asp Leu Ser Leu Ala	
225	
tttattttat gtttgaaact ttagaattat gagatggggg atctattcag agagaactgt	849
ccttaatttt gattttcccg ttgtttcct cttcatgtcc agtgaaattt ttgttttgt	909
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<212> PRT
<213> Phalaenopsis equestris

<400> 2

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Arg Gln Val Thr Tyr Ser Lys Arg Arg Val Gly Ile Leu Lys Lys Ala
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Lys Glu Leu Thr Val Leu Cys Asp Ala Gln Val Ser Leu Ile Met Phe
35 40 45

Ser Ser Thr Gly Lys Leu Ala Asp Tyr Cys Ser Pro Ser Thr Asp Ile
50 55 60

Lys Gly Ile Tyr Glu Arg Tyr Gln Val Val Thr Gly Met Asp Leu Trp
65 70 75 80

Asn Ala Gln Tyr Glu Arg Met Gln Asn Thr Leu Lys His Leu Asn Glu
85 90 95

Ile Asn Gln Asn Leu Arg Lys Glu Ile Arg Arg Arg Lys Gly Glu Glu
100 105 110

Leu Glu Gly Met Asp Ile Lys Gln Leu Arg Gly Leu Glu Gln Thr Leu
115 120 125

Glu Glu Ser Leu Arg Ile Val Arg His Arg Lys Tyr His Val Ile Ala
130 135 140

Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Ser Thr Arg Glu Thr
145 150 155 160

Tyr Arg Ala Leu Ile His Glu Leu Asp Met Lys Glu Glu Asn Pro Asn
 165 170 175

Tyr Gly Phe Asn Val Glu Asn Gln Ser Arg Ile Tyr Glu Asn Ser Ile
 180 185 190

Pro Met Val Asn Glu Cys Pro Gln Met Phe Ser Phe Arg Val Val His
 195 200 205

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 210 215 220

Ser Leu Ala
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 <213> Phalaenopsis equestris

<220>
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 <222> (196)..(864)

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 ccttttcttt cccatatcaa tctcaactcc ttgccttctc ctgctgcttt gggaagcaga 180
 gcaagaaaga gaacc atg ggg agg ggg aag atc gag ata aag aag att gag 231
 Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu
 1 5 10
 aac cct aca aac agg cag gtt act tac tct aag agg agg gct ggg atc 279
 Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser Lys Arg Arg Ala Gly Ile
 15 20 25

atg aaa aag gcg agc gag ctc acg gtt ctc tgt gat gct cag ctc tcc	327
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30 35 40	
ctt gtt atg ttc tcc agc acc ggc aag ttc tcc gag tat tgt agt cct	375
Leu Val Met Phe Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro	
45 50 55 60	
acc acc gat acc aag agt gta tat gat cgt tac cag cag gtg tcc ggc	423
Thr Thr Asp Thr Lys Ser Val Tyr Asp Arg Tyr Gln Gln Val Ser Gly	
65 70 75	
ata aat tta tgg agc gag cag tac gag aag atg cag aat acg ttg aat	471
Ile Asn Leu Trp Ser Glu Gln Tyr Glu Lys Met Gln Asn Thr Leu Asn	
80 85 90	
cat ttg aag gag ata aac cac aac ttg agg agg gag ata agg cag agg	519
His Leu Lys Glu Ile Asn His Asn Leu Arg Arg Glu Ile Arg Gln Arg	
95 100 105	
atg ggc gag gat ctt gaa ggg cta gaa atc aaa gaa ctg cgt ggt ctt	567
Met Gly Glu Asp Leu Glu Gly Leu Glu Ile Lys Glu Leu Arg Gly Leu	
110 115 120	
gag caa aat atg gac gag gcc cta aag ctt gta agg aat cga aag tat	615
Glu Gln Asn Met Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr	
125 130 135 140	
cac gtc atc agc acc cag aca gat aca ttc aaa aaa aag ttg aaa aac	663
His Val Ile Ser Thr Gln Thr Asp Thr Phe Lys Lys Lys Leu Lys Asn	
145 150 155	
tct caa gaa acc cac agg aac tta ctc cgg gag ctg gaa act gag cac	711
Ser Gln Glu Thr His Arg Asn Leu Leu Arg Glu Leu Glu Thr Glu His	
160 165 170	
gcc gtc tac tac gtg gat gat gat cca aac aac tat gat ggc gcg ctt	759
Ala Val Tyr Tyr Val Asp Asp Asp Pro Asn Asn Tyr Asp Gly Ala Leu	
175 180 185	
gca ctt gga aat ggg gct tcc tac ttg tat tca ttt cgt acc caa cca	807
Ala Leu Gly Asn Gly Ala Ser Tyr Leu Tyr Ser Phe Arg Thr Gln Pro	
190 195 200	
agc cag ccg aac ctt cag gga gtt gga tat gtc cct cat gat cta cgt	855
Ser Gln Pro Asn Leu Gln Gly Val Gly Tyr Val Pro His Asp Leu Arg	

205 210 215 220
 ctc gcc tga tcttttatta tctgcatgcc aactgcctaa ttatatctat 904
 Leu Ala

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 <213> Phalaenopsis equestris

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 35 40 45

Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro Thr Thr Asp Thr
 50 55 60

Lys Ser Val Tyr Asp Arg Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp
 65 70 75 80

Ser Glu Gln Tyr Glu Lys Met Gln Asn Thr Leu Asn His Leu Lys Glu
 85 90 95

Ile Asn His Asn Leu Arg Arg Glu Ile Arg Gln Arg Met Gly Glu Asp
 100 105 110

Leu Glu Gly Leu Glu Ile Lys Glu Leu Arg Gly Leu Glu Gln Asn Met
 115 120 125

Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr His Val Ile Ser
 130 135 140

Thr Gln Thr Asp Thr Phe Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr
 145 150 155 160

His Arg Asn Leu Leu Arg Glu Leu Glu Thr Glu His Ala Val Tyr Tyr
 165 170 175

Val Asp Asp Asp Pro Asn Asn Tyr Asp Gly Ala Leu Ala Leu Gly Asn
 180 185 190

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 195 200 205

Leu Gln Gly Val Gly Tyr Val Pro His Asp Leu Arg Leu Ala
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<220>
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 <222> (216)..(887)

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 agctttcttc ctcattcttc ccgttcgtca acatcactaa tcactgctgt ttcagtagac 180
 tgggagagct aggagtggag aaaagagatt tgaag atg ggg agg ggg aag ata 233

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	1				5		
gag att aag aag ata gag aat ccg act aat cgg cag gtg acc tac tcg							281
Glu Ile Lys Lys Ile Glu Asn Pro Thr Asn Arg Gln Val Thr Tyr Ser							
aag agg aga gct ggg att atg aag aag gcg agg gag atc act gtt ctc							329
Lys Arg Arg Ala Gly Ile Met Lys Lys Ala Arg Glu Ile Thr Val Leu							
tgc gat gct gag gtt tcg ctt atc atg ttc tcg agt act ggg aag ttt							377
Cys Asp Ala Glu Val Ser Leu Ile Met Phe Ser Ser Thr Gly Lys Phe							
tct gag tac tgt agc cct tcg acg gaa acg aag aag gtt ttt gaa cgc							425
Ser Glu Tyr Cys Ser Pro Ser Thr Glu Thr Lys Lys Val Phe Glu Arg							
tac cag cag gta tct ggc att aac ttg tgg agc tcg cag tac gag aag							473
Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp Ser Ser Gln Tyr Glu Lys							
atg ctg aat acg ctt aac cat tcg aag gag atc aat cgc aat ctg agg							521
Met Leu Asn Thr Leu Asn His Ser Lys Glu Ile Asn Arg Asn Leu Arg							
agg gaa gta agg cag agg atg ggg gaa gat ctt gag gga ctg gat atc							569
Arg Glu Val Arg Gln Arg Met Gly Glu Asp Leu Glu Gly Leu Asp Ile							
aag gaa ctg cgc ggt ctt gag caa aac att gat gag gca ttg aag cta							617
Lys Glu Leu Arg Gly Leu Glu Gln Asn Ile Asp Glu Ala Leu Lys Leu							
gta cga aat aga aaa tat cat gta atc agt act caa acg gac acc tac							665
Val Arg Asn Arg Lys Tyr His Val Ile Ser Thr Gln Thr Asp Thr Tyr							
aag aag aag ttg aag aac tcc caa gaa aca cac cgg aac tta atg cac							713
Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr His Arg Asn Leu Met His							
gaa ttg gaa atc gtt gag gac cac cca gtg tat ggg ttc cac gag gat							761
Glu Leu Glu Ile Val Glu Asp His Pro Val Tyr Gly Phe His Glu Asp							

tca agc aat tat gag ggt gtt ctt gct ctt gca aat gac ggg tct cac 809
 Ser Ser Asn Tyr Glu Gly Val Leu Ala Leu Ala Asn Asp Gly Ser His
 185 190 195

atg tat gcc ttc cgg gtg caa ccc aac caa caa aat ctt caa gga acg 857
 Met Tyr Ala Phe Arg Val Gln Pro Asn Gln Gln Asn Leu Gln Gly Thr
 200 205 210

gga tat agc tct cac gat ctt cgc ctc gct tgatataatc gtgtaagtag 907
 Gly Tyr Ser Ser His Asp Leu Arg Leu Ala
 215 220

tacaatcaca tatgcagtct tcattttatt gttcgcaaatt tatgctctca gtagctggta 967

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atgtggact 1036

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 <213> Phalaenopsis equestris

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Arg Glu Ile Thr Val Leu Cys Asp Ala Glu Val Ser Leu Ile Met Phe
 35 40 45

Ser Ser Thr Gly Lys Phe Ser Glu Tyr Cys Ser Pro Ser Thr Glu Thr
 50 55 60

Lys Lys Val Phe Glu Arg Tyr Gln Gln Val Ser Gly Ile Asn Leu Trp
 65 70 75 80

Ser Ser Gln Tyr Glu Lys Met Leu Asn Thr Leu Asn His Ser Lys Glu
85 90 95

Ile Asn Arg Asn Leu Arg Arg Glu Val Arg Gln Arg Met Gly Glu Asp
100 105 110

Leu Glu Gly Leu Asp Ile Lys Glu Leu Arg Gly Leu Glu Gln Asn Ile
115 120 125

Asp Glu Ala Leu Lys Leu Val Arg Asn Arg Lys Tyr His Val Ile Ser
130 135 140

Thr Gln Thr Asp Thr Tyr Lys Lys Lys Leu Lys Asn Ser Gln Glu Thr
145 150 155 160

His Arg Asn Leu Met His Glu Leu Glu Ile Val Glu Asp His Pro Val
165 170 175

Tyr Gly Phe His Glu Asp Ser Ser Asn Tyr Glu Gly Val Leu Ala Leu
180 185 190

Ala Asn Asp Gly Ser His Met Tyr Ala Phe Arg Val Gln Pro Asn Gln
195 200 205

Gln Asn Leu Gln Gly Thr Gly Tyr Ser Ser His Asp Leu Arg Leu Ala
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<210> 7

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<212> DNA

<213> Phalaenopsis equestris

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<222> (123)..(782)

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ga atg ggg aga ggg aag ata gag ata aag aag ata gag aat cca aca 167
Met Gly Arg Gly Lys Ile Glu Ile Lys Lys Ile Glu Asn Pro Thr
1 5 10 15
agc agg caa gta acg tat tca aag agg cga ctt ggg atc atg aag aag 215
Ser Arg Gln Val Thr Tyr Ser Lys Arg Arg Leu Gly Ile Met Lys Lys
20 25 30
gca gag gaa ctc aca gtg ctc tgc gac gct caa ctc tca ctc atc atc 263
Ala Glu Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser Leu Ile Ile
35 40 45
ttc tca agc tcc ggc aag tta gct gat ttc tgc agc cct tcc aca gac 311
Phe Ser Ser Ser Gly Lys Leu Ala Asp Phe Cys Ser Pro Ser Thr Asp
50 55 60
gtt aaa gat ata gtt gag agg tac caa aat gtt acc gga att gat ata 359
Val Lys Asp Ile Val Glu Arg Tyr Gln Asn Val Thr Gly Ile Asp Ile
65 70 75
tgg gat gcg caa tat cag agg atg cag aac act ctg agg aat ctc agg 407
Trp Asp Ala Gln Tyr Gln Arg Met Gln Asn Thr Leu Arg Asn Leu Arg
80 85 90 95
gag att aat cgt aat ctt cag aag gag ata aga cag agg aag ggg gag 455
Glu Ile Asn Arg Asn Leu Gln Lys Glu Ile Arg Gln Arg Lys Gly Glu
100 105 110
aat ctg gaa ggg ttg ggc gtt aaa gag ctg cgc ggt ctt gag caa aaa 503
Asn Leu Glu Gly Leu Gly Val Lys Glu Leu Arg Gly Leu Glu Gln Lys
115 120 125
ttg gag gag tcg gtt aag att gtt cgg cag aga aag tat cat gtg atc 551
Leu Glu Glu Ser Val Lys Ile Val Arg Gln Arg Lys Tyr His Val Ile
130 135 140
gct acg caa aca gac act tgc agg aaa aag ctc aaa agc agc aga caa 599
Ala Thr Gln Thr Asp Thr Cys Arg Lys Lys Leu Lys Ser Ser Arg Gln
145 150 155

ata tac aga gcc cta acg cat gaa ctg cag aag ctg gac gaa gag aat 647
 Ile Tyr Arg Ala Leu Thr His Glu Leu Gln Lys Leu Asp Glu Glu Asn
 160 165 170 175

caa ccg tgc agt ttt ctc gta gaa gat cta agc tgc atc tat gac agc 695
 Gln Pro Cys Ser Phe Leu Val Glu Asp Leu Ser Cys Ile Tyr Asp Ser
 180 185 190

tca atc tca atg gca aat cgg ctg cac cgg agt gag cca aat gtg cag 743
 Ser Ile Ser Met Ala Asn Arg Leu His Arg Ser Glu Pro Asn Val Gln
 195 200 205

aaa gta gtt cgt gag tgt cat gag ttt ggc ttt gat tga cctgcaattt 792
 Lys Val Val Arg Glu Cys His Glu Phe Gly Phe Asp
 210 215

tctattactt tgtgttacaa tgtggatttg ttttcatggc ttaacatcat aggattgtat 852

aaactatttt tttgtgtgca atgtttaagt tctgatcttg atatcc 898

<210> 8

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<212> PRT

<213> Phalaenopsis equestris

<400> 8

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 20 25 30

Glu Glu Leu Thr Val Leu Cys Asp Ala Gln Leu Ser Leu Ile Ile Phe
 35 40 45

Ser Ser Ser Gly Lys Leu Ala Asp Phe Cys Ser Pro Ser Thr Asp Val
 50 55 60

Lys Asp Ile Val Glu Arg Tyr Gln Asn Val Thr Gly Ile Asp Ile Trp
 65 70 75 80

Asp Ala Gln Tyr Gln Arg Met Gln Asn Thr Leu Arg Asn Leu Arg Glu
85 90 95

Ile Asn Arg Asn Leu Gln Lys Glu Ile Arg Gln Arg Lys Gly Glu Asn
100 105 110

Leu Glu Gly Leu Gly Val Lys Glu Leu Arg Gly Leu Glu Gln Lys Leu
115 120 125

Glu Glu Ser Val Lys Ile Val Arg Gln Arg Lys Tyr His Val Ile Ala
130 135 140

Thr Gln Thr Asp Thr Cys Arg Lys Lys Leu Lys Ser Ser Arg Gln Ile
145 150 155 160

Tyr Arg Ala Leu Thr His Glu Leu Gln Lys Leu Asp Glu Glu Asn Gln
165 170 175

Pro Cys Ser Phe Leu Val Glu Asp Leu Ser Cys Ile Tyr Asp Ser Ser
180 185 190

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195 200 205

Val Val Arg Glu Cys His Glu Phe Gly Phe Asp
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<223> PeMADS3 specific primer

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<210> 11
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<223> PeMADS5 specific primer

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<210> 13
<211> 21
<212> DNA
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<223> nested PeMADS2-specific primer

<400> 13

tgattcggat gaacaaccct a

21

<210> 14

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<220>

<223> nested PeMADS3-specific primer

<400> 14

aggaagcccc atttccaagt g

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<210> 15

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21

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<210> 17

<211> 18

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<213> Artificial

<220>
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<400> 17
gaaacttacc gcgctcta 18

<210> 18
<211> 25
<212> DNA
<213> Artificial

<220>
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<400> 18
tctctctgaa tagatccccc atctc 25

<210> 19
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<400> 19
ctctcaagaa acccacag 18

<210> 20
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<212> DNA
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<220>
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<210> 22
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<400> 22
cacagaatca cacatagca 19

<210> 23
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<212> DNA
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<223> PeMADS5-specific internal forward primer

<400> 23
caaacagaca cttgcagg 18

<210> 24
<211> 25
<212> DNA
<213> Artificial

<220>
<223> PeMADS5-specific internal reverse primer

<400> 24
tcctatgatg ttaagccatg aaaac 25

(US5764.ST25.txt)